



# The Ground Plane

South Bay  
Amateur  
Radio  
Association  
ARRL Member Club  
Since 1974



Volume 5 Edition 8

August, 2004

**SBARA Meets the 3rd Friday of every month at 7:30 PM at the  
Fremont Veterans Hall at 37154 Second Street in Niles — Talk-in 147.015**

## President's Message by Al Rendon, WT6K

WE'RE MOVING...WE'RE MOVING...or I should say that SBARA's monthly meeting is moving to a new location. After months of looking and months of negotiations by the leadership team SBARA finally has a new home. And there is more; SBARA'S meeting night is changing with this move from Wednesday to Friday. Those of you who have been following this process will remember that the main reason for finding a new home was to be able to change the meeting night to Friday in hopes that Friday will provide more socializing opportunities for the membership.

So on Friday, August 20<sup>th</sup> at 7:30PM join us at the Veteran's Memorial Building at the corner of 2<sup>nd</sup> and E Streets in the Niles district for a barbecue dinner prior to the business meeting. We will be serving Hamburgers (\$3.00 ea.) and Hot Dogs (\$1.50 ea.) with all the fixings. It will be your opportunity to take a tour of the facilities. Check the SBARA web page for a map if you are not familiar with the Niles District.

Next, I want to thank all of you who signed-up to work the Hayward Zucchini Festival August 21<sup>st</sup> and 22<sup>nd</sup>. The response has been gratifying. There are shifts still available on Sunday the 22<sup>nd</sup> if you would like to join the SBARA gang. This event is SBARA's main fundraiser for the year. By participating you are helping raise the revenue necessary to keep the Association financially sound for another year. If you sign-up you will be given a free chance to win one of two new ICOM HT's that will be given away to those who work the festival. Contact me at [wt6k@arrl.net](mailto:wt6k@arrl.net) if you are available on Sunday the 22<sup>nd</sup> to help us in this important event.

Finally, Dennis Franklin, K6DF has started his code practice sessions. He is sending code on the simplex frequency 146.460MHz (FM) by sending audio tones over the keyed microphone. All you have to do is tune in on Tuesday's and Friday's at 7:30PM. At the August 20<sup>th</sup> SBARA meeting Sam Severs, WS6S will demonstrate a clever audio tone keyer circuit that he has built that connects to your 2 Meter (to page 2)

## August Program Announcement

This month our very own Kristen, K6WX, will be giving a talk on Software Defined Radio or SDR. SDR replaces analog radio components with digital signal processing. Many believe SDR to be the future of radio. As computers increase in speed and power requirements decrease, what we used to consider impossible is becoming commonplace. SDR is on this path and this talk will explore several aspects of this emerging technology, offering the promise of smaller, more flexible radios with characteristics not realizable with conventional circuitry. We will look at what SDR is, how it's done, aspects of modulation/demodulation, adjacent signal rejection, power requirements and other topics. Come and find out what the future of radio could be. Kristen — K6WX

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## New SBARA Meeting Location

An agreement has been reached with Alameda County for SBARA to conduct meetings in the Washington Township Veteran's Memorial Building on the third Friday of the month. The Veteran's Building is located in the Niles District of Fremont on the corner of Second and E streets. The address is 37154 Second Street. The Board of Directors set a goal to find a Friday meeting location so that the membership could spend more time socializing with each other before, during and after the meeting. The facility is a modern, recently renovated building with a full kitchen and multiple meeting rooms. It has the potential for SBARA to establish a 'home' for the association.

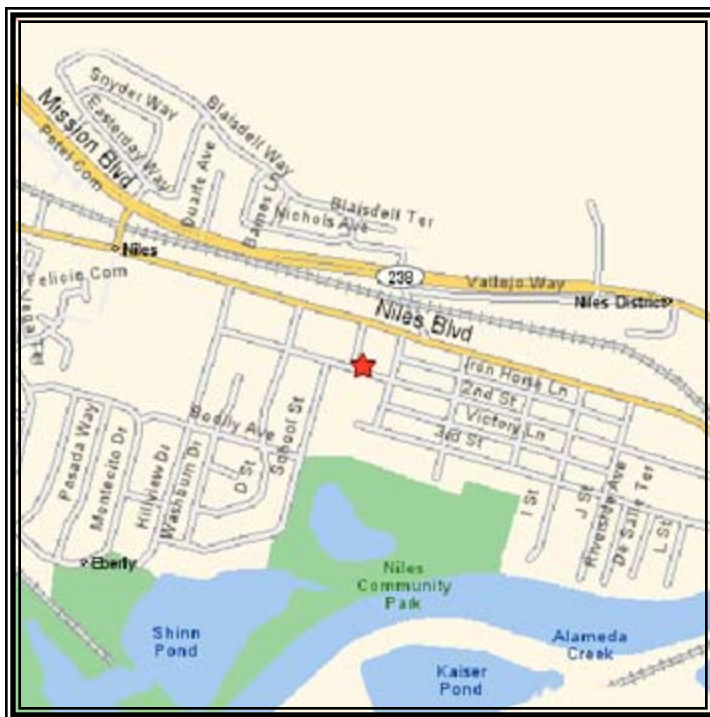
Our first meeting at Veteran's Memorial will be August 20, 2004 beginning at 7:30PM. Bring a Friend !!!

**Talk — In Frequency**

**147.015 +600**



Veterans Hall



## President's Message (cont'd.)

From page 1 -

FM rig's audio/TNC input that turns on the PPT and sends the CW tones on the FM modulation. This is another good reason for coming to the August 18<sup>th</sup> SBARA meeting!

Thanks for all your support this year. Oh, by the way,

congratulations to Elise Ciruolo, KF6TQB for passing here General Exam and the 5WPM code test. See you on 40 Meters Elise!

Hope to see all of you at the August meeting to show off our new meeting facility.

73, Al WT6K

## From the VP — August

With the arrival of some really hot weather and the new meeting location comes a shift in the SBARA monthly raffle. This month feature a MAHA MH-battery charger & analyzer (a one a few months ago for my-salvation of several battery HT. It supports Lithium Ion, NiCD battery chemistries charge almost any battery virtues that are better de-at:



the raffle first prize will feature C777PLUS-II universal battery (\$89.99 value). I purchased self and it proved to be the packs for my ICOM IC T8A Lithium Polymer, NiMH, and and can be quickly adapted to pack. It has many features & scribed by MAHA. Check it out

<http://www.mahaenergy.com/store/Item.asp?idProduct=185&cur=specs#mid>

The second prize will be a Ten-Tec model 1202 SWR Bridge & RF wattmeter kit (a \$64.00 value). Ten-Tec is a US company that manufactures a great line of Ham radio equipment and their kits are first rate. The HF through 2 Meter SWR/Wattmeter has separate HF and VHF connectors that let you leave the unit in-line with both rigs at the same time! Check out the model 1202 at:

<http://www.tentec.com/amaccyKit.htm>

Join me in congratulating our July raffle winners! The winner of the Yaesu VX-2R HT was Adam Feriante KG6HDR, followed by visiting Hayward Radio Club member Risto Kotalampi W6RK (a set Conair FRS radios and the ARRL More Wire Antenna Classics-book), Ted Cameron N6BFO (Morse Code, The Essential language -book and Ernie Anaya KF6FFE finishing up with a Krispy Kreme Donut Certificate.

## SBARA Code Practice

Dennis Franklin K6DF has begun conduct code practice 'sessions' for all the SBARA members that showed interest in upgrading their CW skills at this year's Field Day. Actually everyone is invited to participate.

This is an opportunity to get some practice in copying and sending Morse code and experience being 'on the air' sending CW.

For details, if interested in this class, please contact Dennis Franklin K6DF at [K6DF@comcast.net](mailto:K6DF@comcast.net)

He is sending code on the simplex frequency 146.460MHz (FM) by sending audio tones over the keyed microphone. All you have to do is tune in on Tuesday's and Friday's at 7:30PM.

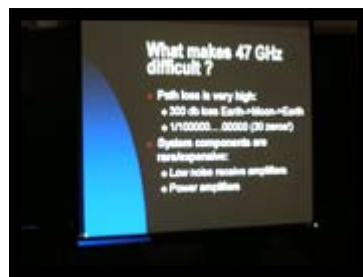
## August Photo Album



Gary Lauerbach AD6FP



47 Ghz to the Moon !



47Ghz is hard to do



July Winners



First Prize Winner—Adam

## Handy Web Links

|                       |                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------|
| <b>SBARA Web Site</b> | <a href="http://www.qsl.net/sbara">http://www.qsl.net/sbara</a>                                 |
| ARRL Main Site        | <a href="http://www.arrl.org/">http://www.arrl.org/</a>                                         |
| ARRL SCV Division     | <a href="http://www.arrl.org/sections/SCV.html">http://www.arrl.org/sections/SCV.html</a>       |
| ARRL East Bay Section | <a href="http://www.pdarrl.org/ebsec/index.html">http://www.pdarrl.org/ebsec/index.html</a>     |
| ARRL Contest Page     | <a href="http://www.arrl.org/contests">http://www.arrl.org/contests</a>                         |
| Contest Calendar      | <a href="http://www.hornucopia.com/contestcal">http://www.hornucopia.com/contestcal</a>         |
| Callsign Lookup (QRZ) | <a href="http://www.qrz.com/">http://www.qrz.com/</a>                                           |
| Vanity Callsign Info  | <a href="http://www.vanityhq.com/">http://www.vanityhq.com/</a>                                 |
| IRLP Main Page        | <a href="http://www.irlp.net/">http://www.irlp.net/</a>                                         |
| AMSAT                 | <a href="http://www.amsat.org/">http://www.amsat.org/</a>                                       |
| FCC Services          | <a href="http://wireless.fcc.gov/services/amateur">http://wireless.fcc.gov/services/amateur</a> |

**SBARA on the Internet at**  
<http://www.qsl.net/sbara>

## Fremont Repeaters & Net Information

WA6PWW - 147.015 +600Khz, PL 103.5  
 WA6PWW - 223.900 -500Khz, PL 107.2  
 WA6PWW - 442.600 +5Mhz, PL 107.2  
 N6OXR - 146.94 -600Khz, PL 123.0  
 N6OXR - 441.525 +5Mhz, PL 123.0  
 ARES - Tuesday @ 7:30pm - 147.015 + PL 103.5  
 Code Practice - Friday @ 7:30pm - 146.460 (simplex)

### Groundplane

#### SBARA Newsletter

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*The Groundplane is published monthly by the South Bay Amateur Radio Association. Articles and letters are always welcome. The normal deadline for material is six days prior to the end of the previous month. Articles can be sent by email to [hamradio@comcast.net](mailto:hamradio@comcast.net) or via U.S. Mail. Contact the Editor for details and submission guidelines. The opinions expressed in the Groundplane are strictly those of the authors.*

**South Bay Amateur  
Radio Association**  
 Founded 1974

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### COLOR TV IS CELEBRATING ITS 50TH ANNIVERSARY THIS YEAR

Now for a bit of a history lesson. Although color TV transmissions were in the development stages many years earlier, the broadcast industry is celebrating its half century mark this year. This is because it was 50 years ago that color broadcasts were initially made available to the public.

The "Model 5" was the prototype for the first RCA production Color Receiver, the later Model CT-100. The Model 5 circuitry is virtually identical to the later CT-100, with a few different tube types. The Model 5 cabinet is distinguished from the later production CT-100 by the 5's criss-cross wood lattice-work over the speaker cloth. Only two of the original Model 5 color receivers are known to survive - both in the hands of collectors.

#### Model 5 Experimental Color Receiver



### NBC Color Logos

The "NBC Chimes" Logo was the first color television logo used by NBC. In an internal and unpublished NBC history, Linda Oken wrote that it was first unveiled during the 1954 Rose Parade colorcast. However, Richard O'Brien has written that it was shown on NBC, December 17, 1953 at 5:32 P.M., to announce that day's FCC approval of the NTSC standards.

The famous NBC Color Peacock did not appear until September, 1956, and only as a still slide. The impressive animated version was introduced on "Your Hit Parade" on September 7, 1957.

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|                                                                                                                          |                                   |                                                                                |                                                                                     |
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| Volume 5 Edition 8                                                                                                       |                                   | August, 2004                                                                   |                                                                                     |

*SBARA Barbecue dinner prior to the business meeting on August 20th.*

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The Ground Plane

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